



census data needs of Ontario users

an evaluation



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Ontario Ministry of Treasury, Economics and Intergovernmental Affairs

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The Honourable John White, minister
H. Ian Macdonald, deputy minister

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FOREWARD

To develop useful specifications for the 1971 Ontario Data Access Program, it was necessary to gain some insight into the requirements of data users in the Ontario government. Our project team needed to understand not only what information users need but also the manner in which they will use it and the projects for which they intend it.

To assess these needs, a survey was undertaken through members of the Ontario Census Data Users Committee. One committee member from each of five ministries was asked to serve as the contact with other users in his ministry. By this means, discussions were arranged with small groups who were able to describe the data needs of their entire ministries. This report summarizes the results of that survey. It begins with a general evaluation of the census data requirements of users in the Ontario government, describing their needs in terms of subject matter, geographic breakdown and the manipulations required. The needs of each ministry are described separately, with notes on the way data are used and the projects for which they are needed. Finally, the report shows some sample requests, along with the data that were retrieved in response.



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The project team is grateful to those who took part in the survey, for their time and co-operation in providing the information we needed.

The survey and this report are primarily the work of Mr. S.N. Sharma, Project Statistician. Miss Marilyn Lee assisted him by retrieving samples of data from the computer. This report embodies much advice from the project team, notably Mr. Ed McCoy and Mr. Dave Weeks. The editing assistance of Mr. Hal Tennant, Information Services, is much appreciated.

K.Y. Shen,
Project Leader,
1971 Census Data Project Team.

EVALUATION OF CENSUS DATA NEEDS

The major potential users of census data in the Ontario government were asked what data and what level of detail they require. Certain patterns in the demand for census data were identified under three categories: (1) which census data items are in greatest demand; (2) what level of information will be requested in the geographic area; and (3) what manipulations are necessary to render the census data frequency counts into more useful forms.

Under these three categories, the dominant patterns of census data uses are:

(1) Popular Census Data Items

These census data items, listed in order of their apparent importance, are needed by a wide spectrum of users:

<u>Census Data Items</u>	<u>Details Needed</u>
Population Count	Per-cent change; 1961-71 by age and sex
Age	Particularly number of people in significant "life stages": children, teenagers, working years, etc.
Education	Especially years of school completed
Dwelling	- owner/renter - single, multiple form of unit

<u>Census Data Items</u>	<u>Details Needed</u>
Labour Force	In particular - by industry - by occupation - by age and sex - by income group
Occupation	Typically - labour force, by sex - labour force, by income - wage earners, by sex - wage earners, by income group
Income	- family income - per-cent change in income 1961-71

(2) Geographic Level of Information

The geographic levels generally of concern to users are (in random order):

County

Municipality

Census metropolitan area

Electoral district

Enumeration area

Some users want data also by economic region. An economic region may consist of several counties or census divisions and is useful for making comparisons at the sub-provincial level.

Few users are likely to want data at the block-face level.

(3) Common Manipulations and Calculations on the Census Data

In the course of conducting the survey in the Ontario government, it has been found that certain data manipulations would be required. Users need these manipulations to make data extractions economically feasible or to make displayed results easier to read or interpret. Some of the commonest manipulations are listed and described here:

<u>Type of Operation</u>	<u>Brief Description</u>
Reorganization	(1) Geographic extraction (e.g., construction of "county file" from a geographic file of counties) (2) Geographic aggregation (e.g., selection of a sub-file of most commonly used data item such as population, housing, income) (3) Tables combined on one page (4) Extraction of particular data items
Display data in readable form	(1) Typical box tables and more compact linear tables (2) User-specified or automatically generalized tables (3) Mapping
Geographic area identification	(1) Rank areas by user-specified criteria (2) Insert names in place of geographic codes

<u>Type of Operation</u>	<u>Brief Description</u>
Calculate derived statistics	(1) Within tables (percent, median, means) (2) Between tables (people/rooms, children/income, etc.) (3) Feed census data into mathematical models (e.g., of population, recreation, income, redistribution)

Information Retrieval

The pattern shown above of the demand for census data indicates that both microfilm and summary tapes will be important in the process of retrieving census data. The proportion of data retrieval from each would depend upon their availability from Statistics Canada.

It is difficult to say how the work load will be split between the provincial focal point and Statistics Canada. Perhaps seven to ten per cent of all requests will have to be referred to Ottawa.

Future Developments

In future, work on census data might be required in two other areas:

(1) Computer maps

Computer maps for displaying data (e.g., age and sex distribution of certain area) could be required by users. Because of their visual impact and clarity, such maps are

useful not only for planning and analysis, but also for administrative and public information purposes.

(2) Linkage

Some researchers would like to link census data with other types of data. Census summary tapes, as well as local data in any field, can be used to develop various indicators for planning and evaluation studies.

Such linkage also makes it possible to develop information systems in social, health, transportation and economic fields.

SURVEY OF MAJOR ONTARIO GOVERNMENT USERS OF THE CENSUS DATA

To find out exactly how and what census information might be used by Ontario government people, the project team surveyed five ministries:

Ministry of Education

Ministry of Health

Ministry of Industry and Tourism

Ministry of Transportation and Communications

Ministry of Treasury, Economics and Intergovernmental Affairs

As part of the survey, these ministries were asked to describe specific projects requiring census information and to provide a general listing of tabulations in which they are interested. Their responses, indicating their potential needs for census information, are summarized on the following pages.

SURVEY OF MAJOR USERS - I

Ministry of Education

In education, census data is needed chiefly for forecasting and planning. Besides the ministry, users will include most boards of education throughout the province.

To the ministry, Ontario's social, demographic, family and housing characteristics are important. In planning schools, school boards will need to know children's ages, religions, mother tongues and ethnic origins.

Tabulations of interest to the Ministry are:

1. Age by single years
2. Place of birth
3. Place of birth of parents
4. Official language
5. Children born alive, by age of mother
6. Ethnic group by age
7. Religious denomination by age
8. Mother tongue by age
9. Language spoken at home by age
10. School attendance by age
11. Level of schooling of persons attending full-time by age
12. Migration status by age
13. Migrants by place of residence in 1966 by age

14. Number of intermunicipal movers by age
15. Family heads by income, age and sex
16. Dwellings by type and tenure
17. Interprovincial migrants by sex, origin and province of residence
18. Specific fertility rates by ethnic origin for those born in Ontario and those not born in Ontario
19. County and district migration matrices by total, by ethnic origin
20. Age distribution by sex and single years of age by ethnic origin, by mother tongue
21. Determination of population concentrations by ethnic origin, by mother tongue
22. Breakdown of Franco-Ontario population by county and districts by birth or elsewhere
23. Determination of relationship among ethnic origin, mother tongue and language spoken

SURVEY OF MAJOR USERS - II

Ministry of Health

This ministry intends to use 1971 census data extensively for research and planning. Social, demographic and some economic characteristics will be used in public health, environmental health, mental health and cancer treatment studies.

Examples of programs carried out by the ministry or by local health authorities which would make use of small-area data or detailed cross-classified data are:

1. Long-range planning: Regional and local needs for mental health facilities and services, in-patient and out-patient homes for special care, cancer treatment centres, special clinics, treatment centres for persons with special health problems. Data needed: population of local areas by age and sex.
2. Local public health services: In assessing health needs in areas within health units, districts or regions, and to help in planning boundaries for new or extended units. Health grants are made per capita so it is important for population data to be accurate and up-to-date. Data needed: population of local areas, including unorganized townships, Indian Reserves, and improvement districts.

3. Health manpower studies, including estimates of student enrolment in the health disciplines. Data needed: local area population by age, sex, occupation, industry, education.
4. Mass screening programs: Tuberculosis, diabetes, glaucoma, etc. Data needed: population of local areas by age and sex, to help in planning for staff requirements, equipment and supplies.
5. Immunization programs: Population of local areas, all municipalities, by single years of age under 20 years.
6. All epidemiological studies: As a base for mortality, morbidity, incidence or prevalence rates, probabilities, other health or social indices. Data needed: local area population by age, sex, occupation, industry, ethnic affiliation.
7. Laboratory services: In planning for regional increases in volume of testing services in central and regional laboratories. Data needed: local area population.

8. Fertility studies: To investigate trends in fertility and the need for health facilities (pre-natal classes, well-baby clinics, immunization clinics, sight and hearing testing). Data needed: local area population by age, number of children, birth date of last-born child.
9. Occupational health studies: To study morbidity and mortality patterns in certain occupations within industries for specified municipalities or areas. Data needed: population by age, sex, industry and occupation.

Some additional data, requiring special tabulations, will be needed. These include:

- a) The procurement of denominators for cancer incidence rates by ethnic origin and age group by sex for counties and districts (or finer subdivisions). Here information will be acquired by survey and related with the census data base.
- b) Study of medical and hospital service utilization by population segments defined by income levels.

SURVEY OF MAJOR USERS - III

Ministry of Industry and Tourism

In the Ministry of Industry and Tourism, the Tourism and Recreation Studies Branch intends to use census data extensively for research, planning and development studies and for its Tourism and Outdoor Recreation Study Plan.

To plan for tourism and outdoor recreation, the branch is attempting to determine future demands for various outdoor recreation activities, to discover what geographic pattern this demand may take, and to devise the most effective means of satisfying this demand. The generalized recreation model being developed will represent a spatial pattern resulting from a casual interaction between people, facility, resources and space. A change in any one of these elements changes the pattern. To build this model, the branch will combine socio-economic characteristics of the 1971 census data with variables in demand and motivation.

Tabulations of interest to the ministry generally are:

1. AGE

- (a) Age by five year groups
(b) Age by sex by five year groups
(c) Age by selected age groups
(i) 13-14, 15-19, 20-24, 25-29, 30-34, 35-64, 65+
 1 2 3 4 5 6 7
(ii) 15-19, 20-24, 25-29, 30-49, 50-59, 60+
(d) As in l(c) selected age groups by sex
(e) As in l(c) selected age groups by sex, by marital status
(single -15, single 15+, married, widowed and divorced)
 1 2 3 4

2. EDUCATION

- (a) Population (5 years and over) attending school by highest grade attended and sex
- (b) Population (all ages) not attending school by highest grade attended and sex
- (c) 2(b) by occupation divisions
- (d) 2(b) by selected income

0 - 2,999	1
3,000 - 5,999	2
6,000 - 9,999	3
10,000 -11,999	4
12,000 -14,999	5
15,000 -19,999	6
20,000 -24,999	7
25,000 and over	8

3. HOUSEHOLDS

- (a) Households by number of persons
1,2,3,4,5,6 - 9, 10+ total, average
- (b) Households with lodgers
- (c) 3(a) by urban/rural

4. TENANCY

- (a) Per cent population all ages not attending school by highest grade attended by selected length of tenancy in dwelling under 1 year
 - 1 - 2 years
 - 3 - 5 years
 - 6 -10 years
 - 10+ years
- (b) Ownership of vacation home by highest grade attended
- (c) Ownership of vacation home by selected income (2(d))
- (d) Ownership of vacation home by occupation divisions
- (e) Ownership of vacation home by number of weeks worked (June 70 - June 71)
- (f) Dwelling type by length of tenancy
- (g) Ownership of dwelling by length of tenancy

5. AUTOMOBILES/HOUSEHOLD (None, 1,2,3, or more)

- (a) Age of head by number of automobiles

6. HOURS OF WORK/WEEK 1961 and 1971
1 - 19, 20 - 29, 30 - 34, 40 - 44, 45 - 49, 50 or more
- (a) by age selected groups 1(c) (i) & (ii) by sex
 - (b) by education by sex
 - (c) by marital status
 - (d) by occupation division by sex
 - (e) by income (as in 2 (d)) by sex

Some of the information listed above is not yet available because it was not included in the 1971 Census Questionnaire. It may be added to questionnaires of future censuses, however.

SURVEY OF MAJOR USERS - IV

Ministry of Transportation and Communications

The Ministry of Transportation and Communications is responsible for providing a balanced and integrated system of transportation for the province. As a matter of policy, this ministry's activities must be in harmony with the province's social and economic policies. The role of transportation in regional development, for example, is recognized as fundamental to the achievement of broader provincial goals.

Because of the common objectives and basic interaction between transportation policy and other social and economic policies, several ministries use the same data base in much of their research and analysis.

The statistical requirements of the Ministry of Transportation and Communications reflect its multifaceted concerns over transportation policy formulation, systems planning, physical research and financial analysis. In this respect, Transportation and Communications is unlike such ministries as Health and Education, whose activities are more closely associated with population per se and whose requirements are for data based on the population and household census. While it is a major user of census data, the Ministry of Transportation and Communications also uses statistics from many other sources - on the economy of Ontario and Canada,

on travel patterns and on engineering subjects.

Two-Pronged Requirements for Census Data

The Ministry of Transportation and Communications uses population and household census information chiefly for transportation planning and policy formulation.

Since transportation involves the movement of people as well as goods, the planners are concerned about the size and groupings of population clusters, while the analysts require population statistics by municipality and by larger geographic units. On the other hand, localized transportation studies concern smaller geographic entities, right down to the block face.

Transportation Studies

A transportation study typically relates to a small and exactly defined geographic area, often within an urban centre. Usually the objective of the study is to establish travel routes between various points or areas and to estimate volumes of traffic.

The usual geographic unit used is the traffic zone, which varies in size according to several criteria, including population density, extent of industrial activity and rural/urban designation. One important criterion for a traffic zone is homogeneity; there should not be too great a mix of land uses within any one traffic zone.

Wherever possible, physical features of the landscape are used to set the bounds for traffic zones. Rural traffic zones are usually large and often conform to enumeration areas. In urban centres, where industry and population are heavily concentrated, traffic zones are much smaller.

The Toronto area, for example, has more than 900 traffic zones. For practical reasons, urban traffic zones often conform to municipal assessment units and municipal boundaries. The practical considerations provide traffic planners with much municipal and assessment data.

The following data outline indicates the information used in a typical transportation planning project. The two main units are the traffic zone and the municipality, the former carrying far more details than the latter. As can be seen, a number of items are directly obtainable from the census data made available on a decennial basis.

Land Use Data

I. By Traffic Zone

1. Zone number
2. Total area - (acre)
3. Developed area - (acre)

By usage: Such as residential, industrial,
commercial, institutional.

4. Population
5. Labour force
6. Dwelling units

7. Cars
8. Average income
9. Employment
 - (a) manufacture and wholesale
 - (b) retail
 - (c) service
 - (d) others
10. Parking space
11. Particulars
 - (a) School enrollment
 - university (and dormitory capacity)
 - high school
 - (b) Airport-projected annual air passenger
 - (c) Shopping plaza - floor area
 - (d) Hospitals - number of beds
 - (e) Other major institutions

II. By Municipality

This requires a brief description of the socio-economic characteristics of each municipality and the expected change between current and projected characteristics.

If possible, municipal assessment data are used to provide details otherwise unavailable or outdated.

As well as applying census data to particular studies, this ministry geocodes the physical, demographic and economic characteristics of urban and rural areas. For these purposes, it needs small-unit details.

While much of the required data can be obtained from assessment rolls, census data do provide a basic bench-mark measure of demographic and economic variables.

Policy Formulation and Economic Studies

For the projects outlined in the preceding section, the size of the reporting unit is critical; for economic studies undertaken for policy-making, it is not.

Rather, the emphasis is on the variations in types of data available, and there is seldom any need to go below the municipal level. Economic studies of this kind commonly require data on population by municipal unit according to income, age distribution, nature of participation, labour force, and industrial-commercial-residential breakdown.

Typically, these data are used for demand modeling (e.g., determining air travel characteristics and volumes), the determination of industrial travel flows and the achievement of a rational transportation system in keeping with regional development objectives. By its nature, every economic study is unique, with its own peculiar statistical requirements, which are seldom confined to one area of interest. Here is an example of what could be required in a particular study:

Typical Requirements:

By Municipality:

- Industry - labour force, by sex
- labour force, by income group
- wage earners, by sex
- wage earners, by income group

Occupation

- labour force, by sex
- labour force, by income group
- wage earners, by sex
- wage earners, by income group

Population

- by age and sex
- by income group

Labour Force

- by industry
- by occupation
- by age and sex
- by income group

SURVEY OF MAJOR USERS - V

Ministry of Treasury, Economics and Intergovernmental Affairs

The economic, demographic and social characteristics of the population of Ontario are the most important areas to the Ministry of Treasury, Economics and Intergovernmental Affairs. The 1971 census data will be used for these projects:

- I. The population projection model: The Economic Analysis Branch will need census data for the projection model used in forecasting and planning.
- II. Regional development studies: The Regional Development Branch will analyze census information to pinpoint areas in Ontario needing special development. Extensive information on occupations and migration, by regions will be required.
- III. Taxation and fiscal policy development: The Taxation and Fiscal Policy Division wants census data for the income redistribution model used to test the impact of policy options.
- IV. The framing of economic policies: The Office of Economic Policy would use census data for forecasting and planning policies and for economic research.

The following information would be very useful:

- a) Occupational breakdown by industry
- b) Cross tabulation of the occupational data by age and educational achievements for the province

- c) Labour force breakdown by industry, occupation, income, age and sex
- d) Place of birth by age, by sex, by occupation
- e) Period of immigration by age, by marital status, by occupation
- f) Period of immigration by country of birth, by age, by occupation
- g) Out-migrants by level of schooling, by age, by occupation
- h) In-migrants by level of schooling, by age, by occupation
- i) Families by ethnic group, by language spoken at home as reported by head
- j) Income by major source, by level of schooling, by age
- k) Maps: Census Tracts, Enumeration Area, CT/EA, Rural/EA, Urban/EA

TYPICAL EXAMPLES

This section contains examples of the three methods of retrieval:

- I Retrieval from summary tapes
- II Microfilm retrieval
- III Publication retrieval

The examples are included to show how requests are submitted and information is sent back.

Retrieval from summary tapes:

Example A

In this request the user desires the distribution of the male population by country of birth for the area in the City of Toronto bounded by Bloor and Queen Streets on the north and south; Spadina and Yonge Streets on the west and east. This special area is not a predefined census geographical area and therefore must be defined by using a small census geographical area, i.e. census tract or enumeration area. The user requests that the information be given at census tract and enumeration area level.

Because an enumeration area level breakdown is required, this information cannot be provided from publications or microfilm media but only from summary tapes. The results are printed in tabular form and are shown following the request form. The format of the table can be designed to any specifications.

CENSUS DATA REQUEST FORM
CENTRAL STATISTICAL SERVICES
MINISTRY OF TREASURY, ECONOMICS AND INTERGOVERNMENTAL AFFAIRS

REQUESTOR
NAME/TITLE John P. Smith DATE: May 3, 1973
BRANCH: Research and Planning Branch
MINISTRY: Ministry of Health
ADDRESS: 67 Royal Street, Toronto, Ontario
TELEPHONE: 781-5960

REQUEST Provide distribution of male population by country of birth
for a special area by census tract and enumeration area

CENSUS YEAR ☒ 1961 ☐ 1966 ☐ 1971

UNIVERSE Male population

VARIABLE (S) Country of Birth: Canada, England, Wales, Northern Ireland,
Scotland, Germany, Italy, Poland, Republic of Ireland,
Yugoslavia, China.

GEOGRAPHIC AREA
Area in the city of Toronto bounded by Bloor and Queen
Street on north and south; Spadina and Yonge Streets on the
west and east.

Please turn over for instructions)

APPLICATION

NAME OF YOUR REPRESENTATIVE ON THE
CENSUS DATA USERS COMMITTEE: -

AUTHORIZED SIGNATORY POSITION

FOR OFFICE USE

DATA RETRIEVED FROM ☐ HARD COPY ☒ COMPUTER ☐ MICROFILM ☐ MAPS

NO. OF PAGES SENT _____

AMOUNT CHARGED _____

RATE _____

APPROVED _____

INSTRUCTIONS FOR COMPLETING
STATISTICS DATA REQUEST FORM

Q10101. Provide name, branch, ministry, address, telephone number and date.

Q10161 Describe briefly the nature of request.

UNIVERSE: Identify the statistical population to which the data belongs. For example, in "labour force by age and sex", the "labour force" term relates "to the field of information", i.e. universe. "School pupil", "male population in metro" are other examples of universe.

VARIABLE (S): Indicate required variable(s), i.e. age, sex, marital status, income, etc. for the universe.

GEOGRAPHIC AREA: Identify the census operational territorial units, i.e. counties, census tracts, ED, etc. These can be specified on this form or on the geographic maps.

Q10101- Describe briefly the project for which this information is to be used.

Please refer to the Dictionary before filling this request form.

If you have any difficulties, kindly call at 965-4575.

SPECIAL ARFA RETRIEVAL FOR THE

METROPOLITAN AREA OF TORONTO

COUNTRY OF BIRTH

AREA 05	CANADA	ENGLAND	WALES	NORTHERN IRELAND	SCOTLAND	GERMANY	ITALY	POLAND	REPUBLIC OF IRELAND	YUGOSLAVIA	CHINA
	3,555	8	52	110	0	34	96	95	19	144	39
•f. 053	446	1	8	16	0	0	9	12	9	6	0
ED-FA83058	77	0	1	5	0	0	4	0	0	2	0
ED-FA84054	34	1	0	3	0	0	0	2	0	0	0
ED-FA84055	46	0	0	1	0	0	0	1	0	0	0
ED-FA84056	86	0	1	1	0	0	1	3	3	0	0
ED-FA84057	62	0	4	5	0	0	1	1	1	0	0
ED-FA84058	141	0	2	1	0	0	3	5	5	4	0
•f. 060	988	1	19	17	0	21	22	30	3	98	8
ED-FA83027	119	1	4	1	0	1	4	5	2	2	3
ED-FA83028	96	0	1	1	0	0	2	0	0	2	0
ED-FA83029	77	0	2	4	0	5	1	0	0	3	1
ED-FA83030	132	0	2	3	0	1	2	2	0	17	1
ED-FA83031	2	0	0	0	0	0	0	0	0	0	0
ED-FA83032	132	0	0	0	0	6	5	7	0	12	0
ED-FA84028	127	0	2	2	0	4	3	7	0	30	0
ED-FA84029	80	0	1	0	0	0	0	2	0	4	2
ED-FA84030	44	0	0	4	0	1	2	3	1	5	0
ED-FA84031	112	0	5	1	0	0	3	2	0	22	0
ED-FA84032	57	0	2	1	0	3	0	2	0	1	1
•f. 062	885	1	8	15	0	9	16	47	6	24	27
ED-FA83024	86	0	0	2	0	0	3	3	0	1	3
ED-FA83025	55	0	3	2	0	0	1	3	0	1	2
ED-FA83026	122	1	1	2	0	0	1	7	1	0	6
ED-FA83031	21	0	0	0	0	0	1	0	0	0	0
ED-FA84015	163	0	2	2	0	4	1	13	3	1	5
ED-FA84016	144	0	2	5	0	1	2	5	0	0	2
ED-FA84017	167	0	0	2	0	2	6	10	2	10	7
ED-FA84018	123	0	0	0	0	2	1	6	0	11	2
•f. 071	890	4	15	50	0	4	41	5	1	14	1
ED-FA83052	132	0	1	4	0	4	3	0	0	1	0
ED-FA83053	123	0	1	9	0	0	3	1	0	2	0
ED-FA83054	96	1	5	7	0	0	2	0	0	1	0
ED-FA83055	215	2	1	12	0	0	3	2	1	5	1
ED-FA83056	134	0	2	8	0	0	25	0	0	1	0
ED-FA83057	179	1	5	10	0	0	5	2	0	4	0
ED-FA83058	0	0	0	0	0	0	0	0	0	0	0
ED-FA83059	1	0	0	0	0	0	0	0	0	0	0
•f. 073	360	1	2	12	0	0	8	1	0	0	3
ED-FA83021	100	0	0	3	0	0	4	0	0	2	0
ED-FA83022	41	0	0	1	0	0	0	0	0	0	0
ED-FA83023	43	0	0	0	0	0	0	0	0	0	0

SPECIAL AREA RETIRIVAL FOR THE
METROPOLITAN AREA OF TORONTO

COUNTRY OF BIRTH

	CANADA	ENGLAND	WALES	NORTHERN IRELAND	SCOTLAND	GERMANY	ITALY	POLAND	REPUBLIC OF IRELAND	YUGOSLAVIA	CHINA
ED-10-183116	47	0	0	0	0	0	2	1	0	0	0
ED-10-183117	11	0	1	0	0	0	0	0	0	0	0
ED-10-183118	55	0	1	2	0	0	2	0	0	0	0
ED-10-183119	63	1	0	6	0	0	0	0	0	0	3

Retrieval from summary tapes:

Example B

The user requires the total number of households, total number of persons in the households and the average number of persons per household for a special area. A map with the outline of the special area and a list of the municipalities and counties within this area are submitted by the user and are shown following the request form. The special area is not a standard census geographical area and must be defined by using small census geographical units, i.e. municipalities.

Because data provided from microfilm media and publications concerning households are not given at the small census geographical level, this information can be provided only from summary tapes. The results are shown following the request form.

CENSUS DATA REQUEST FORM
CENTRAL STATISTICAL SERVICES
MINISTRY OF TREASURY, ECONOMICS AND INTERGOVERNMENTAL AFFAIRS

REQUESTOR

NAME/TITLE Robert C. Johnston

DATE: April 30, 1973

BRANCH: Public Relations Branch

MINISTRY: Ministry of Industry and Tourism

ADDRESS: 900 Bay Street, 8th Floor, Toronto, Ontario

TELEPHONE: 965-1012

REQUEST Total households, total number of persons in the household
and average persons per household for a special area

CENSUS YEAR ☐ 1961 ☐ 1966 ☒ 1971

UNIVERSE Total households

VARIABLE (S) Persons and households

GEOGRAPHIC AREA

Special area in Southern Ontario as outlined on the map

and as specified by the list of relevant counties and

municipalities which are attached

(Please turn over for instructions)

APPLICATION

NAME OF YOUR REPRESENTATIVE ON THE
CENSUS DATA USERS COMMITTEE: -

AUTHORIZED SIGNATORY POSITION

FOR OFFICE USE

DATA RETRIEVED FROM ☐ HARD COPY ☒ COMPUTER ☐ MICROFILM ☐ MAPS

NO. OF PAGES SENT _____

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DATE _____

APPROVED _____

INSTRUCTIONS FOR COMPLETING
CENSUS DATA REQUEST FORM

REQUESTOR: Provide name, branch, ministry, address, telephone number and date.

REQUEST: Describe briefly the nature of request.

UNIVERSE: Identify the statistical population to which the data belongs. For example, in "labour force by age and sex", the "labour force" term relates "to the field of information", i.e. universe. "School pupil", "male population in metro" are other examples of universe.

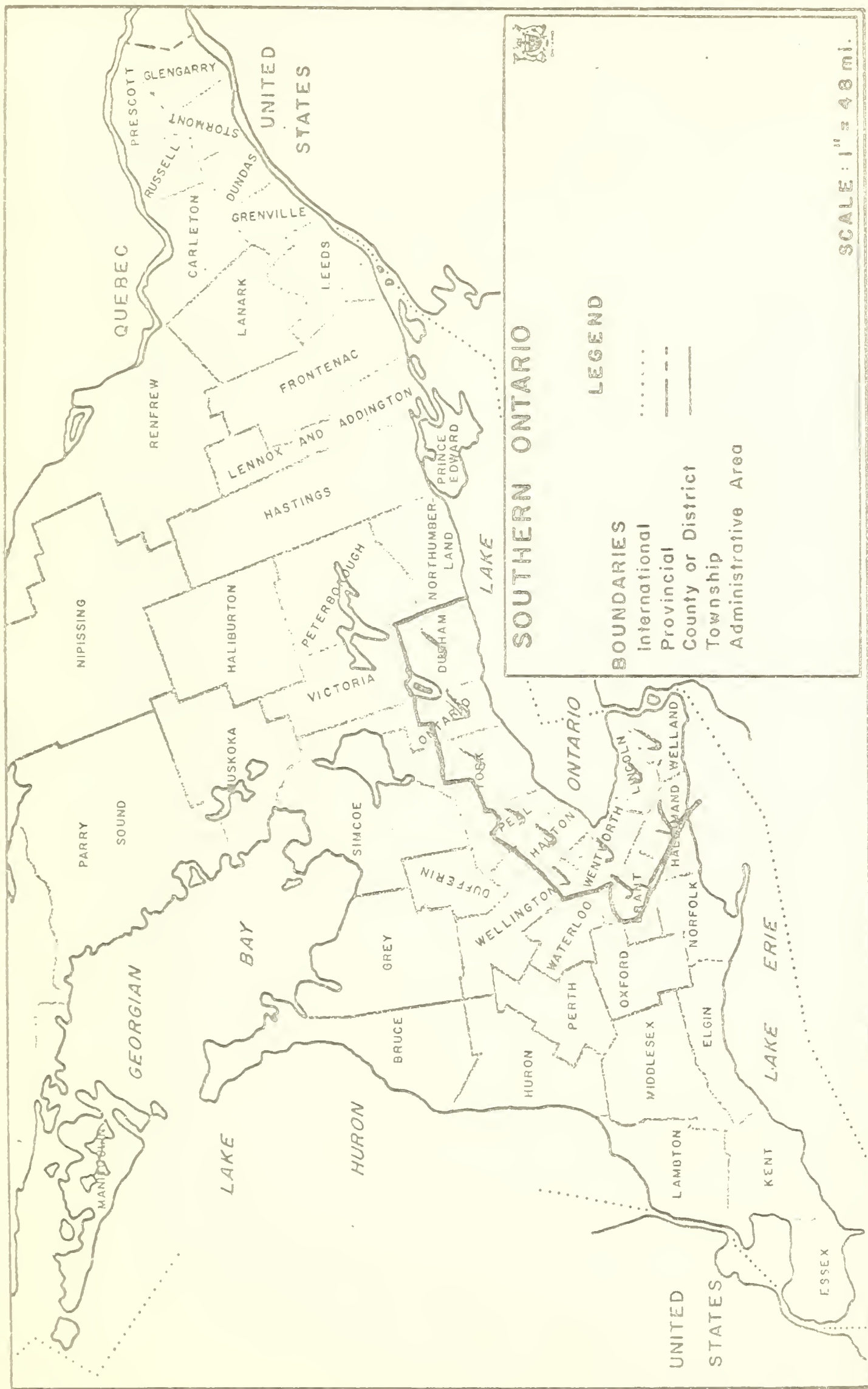
VARIABLE (S): Indicate required variable(s), i.e. age, sex, marital status, income, etc. for the universe.

GEOGRAPHIC AREA: Identify the census operational territorial units, i.e. counties, census tracts, ED, etc. These can be specified on this form or on the geographic maps.

APPLICATION: Describe briefly the project for which this information is to be used.

Please refer to the Dictionary before filling this request form.

If you have any difficulties, kindly call at 965-4575.



LIST OF COUNTIES AND MUNICIPALITIES

Counties

28 Niagara Regional Municipality
53 Wentworth
07 Durham
16 Halton
49 Toronto Metropolitan Municipality

Municipalities

14 - Haldimand	52 - Wellington	36 - Peel
	12A01	03A01
01A01		03A03
02A01		04A01
07A01	32 - Ontario	05A02
04A01	05A01	06A02
05A01	09A01	07A02
06A01	03A01	08A02
08A01	03A03	
09A01	10A01	
11AZ1	12A02	02 - Brant
12A02	13A02	01A01
13A02	14A02	01A03
14A02	15A02	05A01
	18A02	06AZ1
	19A02	07A02
		54 - York
		03A01
		03A03
		05A02
		06A02
		07A02
		08A02
		09A02
		10A02

1971 HOUSEHOLD DATA

FOR SPECIAL AREA #1 (R.K.)

	TOTAL HOUSEHOLDS	TOTAL PERSONS IN HOUSEHOLD	AVERAGE PERSONS PER HOUSEHOLD
SPECIAL AREA TOTAL	1,099,575	3,684,980	3

Retrieval by microfilm:

The user requires the total population of Halton County by five-year age groups, by sex, and by census subdivisions. Each of these geographical areas are well defined census areas.

This information is not found in publications because the geographical area is too small. The information is given in tabular form and is shown following the request form.

Requests which can be filled by using microfilm can also be filled using summary tapes. Whichever method is cheaper and faster will be used; in most cases, this will be microfilm.

CENSUS DATA REQUEST FORM
CENTRAL STATISTICAL SERVICES
MINISTRY OF TREASURY, ECONOMICS AND INTERGOVERNMENTAL AFFAIRS

REQUESTOR

NAME/TITLE W.E. BainDATE: July 20, 1972BRANCH: Educational Exchange BranchMINISTRY: Ministry of EducationADDRESS: 780 Bay Street, Toronto, OntarioTELEPHONE: 965-5660

REQUEST

Population by five year age groups by sex by census
subdivisions for Halton County

CENSUS YEAR

☐

1961

☐

1966

☒

1971

UNIVERSE

Total populationVARIABLE (S) Age, Sex

GEOGRAPHIC AREA

Halton County by census subdivisions

(Please turn over for instructions)

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SUBDIVISION

TOTAL 0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49

WINTER

ESSEX

T 100470 17180 22493 22225 17300 13840 14085 13650 13705 12550 12195
M 9590 8715 11475 11455 8870 6935 6800 6385 6150 7090 6165
F 94480 8460 11020 10770 8425 6900 7285 6795 6765 6500 6025

ESSEX

T 9420 860 1175 1145 860 645 615 645 670 615 545
M 4945 450 645 625 450 335 305 325 350 330 280
F 4470 405 535 520 410 310 310 325 325 285 265

ESSEX

T 9420 860 1175 1145 860 645 615 645 670 615 545
M 4945 450 645 625 450 335 305 325 350 330 280
F 4470 405 535 520 410 310 310 325 325 285 265

MASSACHUSETTS

T 3445 325 420 420 310 215 230 240 210 195 215
M 1770 165 215 225 125 105 115 110 120 105 110
F 1675 155 205 195 155 115 115 125 95 85 110

MASSACHUSETTS

T 3445 325 420 420 310 215 230 240 210 195 215
M 1770 165 215 225 125 105 115 110 120 105 110
F 1675 155 205 195 155 115 115 125 95 85 110

MASSACHUSETTS

T 3445 325 420 420 310 215 230 240 210 195 215
M 1770 165 215 225 125 105 115 110 120 105 110
F 1675 155 205 195 155 115 115 125 95 85 110

MASSACHUSETTS

T 5030 495 520 540 440 445 360 305 265 295 315
M 2535 250 275 280 210 225 195 165 130 155 150
F 2495 245 260 260 230 220 165 145 135 140 160

MASSACHUSETTS

T 5030 495 520 540 440 445 360 305 265 295 315
M 2535 250 275 280 210 225 195 165 130 155 150
F 2495 245 260 260 230 220 165 145 135 140 160

BURLINGTON

T 3720 775 1030 1000 700 625 665 530 635 625 540
M 4345 390 525 515 400 315 320 310 315 325 270
F 4320 370 505 485 355 300 345 310 315 300 270

BURLINGTON

T 6705 775 1030 1000 700 625 665 530 635 625 540
M 4345 390 525 515 400 315 320 310 315 325 270
F 4320 370 505 485 355 300 345 310 315 300 270

BURLINGTON

T 1705 140 210 205 145 120 150 140 120 170 140
M 920 740 110 100 70 75 75 75 85 75 75
F 4430 445 1040 1005 595 620 895 750 580 580 45

BURLINGTON

T 1705 140 210 205 145 120 150 140 120 170 140
M 920 740 110 100 70 75 75 75 85 75 75
F 4430 445 1040 1005 595 620 895 750 580 580 45

POPULATION OF NEW YORK CITY AND SUBURBS, 1940

SUBDIVISION

QUANTITIES

	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+
ALBANY	T	3670	6395	4310	3645	2545	1800	1105	530	170	35
	M	4525	3530	2420	1700	1035	695	415	210	50	10
	F	4140	3275	2390	1945	1450	1105	690	370	120	25
ALBANY	T	420	375	280	230	125	110	50	25	15	5
	M	225	195	100	105	70	65	15	15	10	5
	F	195	175	120	125	60	50	30	10	5	5
ALBANY	T	415	375	280	230	130	115	50	25	15	5
	M	225	200	155	105	85	60	20	10	5	5
	F	190	175	120	130	60	50	35	5	10	5
ALBANY	T	195	140	120	90	55	30	25	10	5	5
	M	100	75	65	55	30	15	10	5	5	5
	F	100	70	55	45	25	15	15	5	5	5
ALBANY	T	195	140	120	90	55	30	25	10	5	5
	M	100	75	65	55	30	15	10	5	5	5
	F	100	70	55	45	25	15	15	5	5	5
ALBANY	T	255	210	175	145	105	75	35	20	10	5
	M	130	130	85	70	50	25	15	10	5	5
	F	130	100	90	70	50	50	20	10	5	5
ALBANY	T	255	210	175	145	105	75	35	20	10	5
	M	130	130	85	70	50	25	15	10	5	5
	F	130	100	90	70	50	50	20	10	5	5
ALBANY	T	3950	3150	2200	1950	1130	815	450	210	75	15
	M	2070	1615	1090	770	435	305	165	35	15	5
	F	1875	1535	1115	830	640	510	285	130	60	10
ALBANY	T	3950	3150	2200	1950	1130	815	450	210	75	15
	M	2070	1615	1090	770	435	305	165	35	15	5
	F	1875	1535	1115	830	640	510	285	130	60	10
ALBANY	T	625	400	330	260	175	105	75	40	10	5
	M	325	265	165	120	70	25	30	5	5	5
	F	300	225	170	135	105	70	45	5	5	5
ALBANY	T	625	400	330	260	175	105	75	40	10	5
	M	325	265	165	120	70	25	30	5	5	5
	F	300	225	170	135	105	70	45	5	5	5
ALBANY	T	625	400	330	260	175	105	75	40	10	5
	M	325	265	165	120	70	25	30	5	5	5
	F	300	225	170	135	105	70	45	5	5	5

Retrieval from publications:

The distribution of total population by mother tongue is required for the cities of Sault Ste. Marie, North Bay and Sudbury. A table taken from a publication follows the request form and contains the required information.

Any request which can be filled using data from publications can also be filled by using microfilm media and summary tapes, but publications are cheaper and faster.

CENSUS DATA REQUEST FORM
CENTRAL STATISTICAL SERVICES
MINISTRY OF TREASURY, ECONOMICS AND INTERGOVERNMENTAL AFFAIRS

REQUESTOR

NAME/TITLE O.B. AllenDATE: March 10, 1973BRANCH: Design Services BranchMINISTRY: Ministry of Transportation and CommunicationsADDRESS: 105 College Street, Toronto, OntarioTELEPHONE: 965-1808REQUEST Distribution of the population by mother tongue

CENSUS YEAR

☐

1961

☐

1966

☒

X

1971

UNIVERSE

PopulationVARIABLE (S) Mother tongue: English, French, German, Italian, Other

GEOGRAPHIC AREA

For the cities of Sault Ste. Marie, North Bay, Sudbury

(Please turn over for instructions)

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TABLE 3. Population by Mother Tongue, for Incorporated Cities, Towns and Villages of 10,000 Population and Over, 1971 - Continued

TABLEAU 3. Population selon la langue maternelle, cités, villes et villages constitués de 10,000 habitants et plus, 1971 - suite

City, town or village Cité, ville ou village	Total	English Anglais	French Français	German Allemand	Indian and Eskimo Indien et esquimau	Italian Italien	Nether- lands Néerlan- dais	Polish Polonais	Ukrainian Ukrainien	Other Autres
Moncton, c., N.B.	47,890	31,015	16,260	45	25	180	45	25	20	290
Montmagny, c., Qué.	12,430	60	12,350	5	—	5	5	—	—	10
Montréal, Qué.										
City - Cité	1,214,355	184,870	814,800	9,585	350	93,315	845	8,480	6,015	96,090
CMA - RMR	2,743,205	595,395	1,819,635	25,810	2,105	130,580	3,545	13,925	10,460	141,760
Montréal-Nord, c., Qué.	89,140	6,490	72,280	365	5	8,390	20	160	205	1,215
Mont-Royal, t. - v., Qué.	21,560	12,545	6,725	275	—	240	35	90	90	1,510
Moose Jaw, c., Sask.	31,855	27,790	665	1,015	40	65	40	200	885	1,100
Nanaimo, c., B.C.	14,950	13,225	210	215	35	130	70	45	75	910
New Glasgow, t. - v., N.S.	10,850	10,475	205	20	5	—	30	10	5	100
Newmarket, t. - v., Ont.	18,940	17,635	165	345	5	90	320	45	60	270
New Westminster, c., B.C.	42,835	36,265	1,120	1,010	20	490	520	155	480	2,670
Niagara Falls, c., Ont.	67,165	53,185	2,095	1,240	15	6,410	400	510	755	2,550
Niagara-on-the-Lake, t. - v., Ont.	12,550	8,495	185	2,295	—	210	340	360	275	385
Noranda, Qué.	10,740	2,225	7,790	55	45	125	5	155	65	285
North Bay, c., Ont.	12,695	9,570	660	665	250	15	50	150	905	440
North Bay, c., Ont.	49,185	37,875	8,530	440	65	1,165	90	125	145	750
North Vancouver, c., B.C.	31,845	27,420	405	980	40	710	325	80	175	1,710
Oakville, t. - v., Ont.	61,430	51,510	1,005	1,630	10	1,940	1,010	540	510	3,315
Orillia, c., Ont.	24,040	22,425	335	185	30	305	235	85	45	390
Oromocto, t. - v., N.B.	11,425	10,790	420	105	30	5	25	5	15	35
Orsonville, t. - v., Qué.	12,520	160	12,290	5	—	25	—	—	5	30
Oshawa, c., Ont.	91,585	75,935	2,765	1,670	15	2,340	970	2,020	2,495	1,385
Ottawa - Hull, Ont. - Qué. :										
Ottawa, c.	302,340	210,455	62,235	3,795	155	9,495	1,205	1,715	1,395	11,900
Hull, c.	63,580	5,190	56,825	140	20	120	25	35	15	1,210
CMA - RMR	602,510	340,240	220,335	6,745	255	10,420	2,645	2,255	1,910	17,215
Ontario (part)	453,280	317,410	96,900	6,245	205	10,645	2,455	2,110	1,865	15,465
Québec (part)	149,230	22,825	123,435	505	50	295	185	140	50	1,745
Ottumwa, c., Qué.	28,555	4,850	16,410	225	10	330	25	125	75	6,300
Owen Sound, c., Ont.	18,470	17,940	75	125	5	20	40	10	15	295
Pembroke, c., Ont.	16,540	13,925	1,685	570	5	40	60	65	15	165
Penticton, c., B.C.	18,145	15,565	290	845	10	115	190	50	195	875
Peterborough, c., Ont.	58,110	55,365	520	490	15	445	340	130	20	335
Pierrefonds, c., Qué.	33,010	18,730	11,075	1,095	5	165	265	125	80	1,165
Pointe-aux-Trembles, c., Qué.	35,565	2,685	32,185	65	5	270	10	45	20	290
Pointe-Claire, c., Qué.	27,305	21,540	4,310	510	5	95	155	90	55	550
Pointe-Gatineau, t. - v., Qué.	15,640	1,075	14,325	25	5	50	10	40	—	115
Portage la Prairie, c., Man.	12,950	11,075	355	265	200	5	70	115	635	225
Port Alberni, c., B.C.	20,065	15,725	710	665	145	385	385	70	210	1,765
Port Colborne, c., Ont.	21,420	15,700	1,770	460	—	1,575	270	145	195	1,395
Port Coquitlam, c., B.C.	19,560	17,145	340	860	10	110	245	40	130	670
Port Moody, c., B.C.	10,780	9,645	155	335	5	20	55	15	70	450
Preston, t. - v., Ont.	16,725	14,470	255	780	5	70	115	185	190	615
Prince Albert, c., Sask.	28,460	21,695	2,230	680	595	20	115	420	1,755	965
Prince George, c., B.C.	13,105	27,440	935	1,440	255	75	235	120	475	1,635
Prince Rupert, c., B.C.	15,745	12,820	210	435	265	630	115	45	150	1,265
Quebec, Qué.										
City - Cité	186,090	6,330	178,290	225	10	465	15	15	15	710
CMA - RMR	480,500	18,035	456,440	690	80	915	95	80	40	2,115
Red Deer, c., Alta.	27,675	24,755	755	770	55	70	405	70	315	885

TABLE 3. Population by Mother Tongue, for Incorporated Cities, Towns and Villages of 10,000 Population and Over, 1971 - Continued

TABLÉAU 3 Population selon la langue maternelle, cités, villes et villages constitués de 10,000 habitants et plus, 1971 - suite

City, town or village Cité, ville ou village	Total	English Anglais	French Français	German Allemand	Indian and Eskimo Indien et esquimau	Italian Italien	Nether- lands Néerlan- dais	Polish Polonais	Ukrainian Ukrainien	Other Autres
Regina, Sask.:										
City - Cité	139,470	113,695	2,255	11,030	625	675	495	960	3,905	5,830
CMA - RMR	140,730	114,810	2,270	11,110	625	680	495	970	3,930	5,850
Repentigny, t. - v., Qué.	19,520	470	18,925	20	-	40	10	10	5	45
Richmond Hill, t. - v., Ont.	32,380	28,370	405	1,075	5	920	435	115	175	880
Rivoulsi, c., Qué.	26,885	255	26,580	5	-	15	-	-	-	30
Rivière-du-Loup, c., Qué.	12,760	105	12,615	5	-	5	-	-	5	25
Rouyn, c., Qué.	17,820	645	16,780	10	25	95	-	45	55	155
St. Albert, t. - v., Alta.	11,800	9,700	880	465	15	30	200	60	215	240
St. Boniface, c., Man.	46,710	26,425	14,440	1,445	65	290	385	490	1,530	1,650
St-Bruno-de-Montarville, t. - v., Qué.	15,780	5,795	9,500	175	-	40	55	30	20	160
St. Catharines - Niagara, Ont.:										
St. Catharines, c.	109,720	86,680	3,760	4,935	60	3,770	1,775	2,270	2,510	3,970
Niagara Falls, c.	67,165	53,185	2,095	1,240	15	6,410	400	540	755	2,550
CMA - RMR	303,430	231,865	16,550	10,200	100	18,625	3,660	4,480	5,415	12,735
Ste-Foy, c., Qué.	68,385	4,660	62,545	190	5	190	45	30	10	705
St-Hubert, t. - v., Qué.	21,740	5,670	15,290	230	-	105	45	45	35	330
St-Hyacinthe, c., Qué.	24,560	290	24,160	30	-	15	10	5	-	50
St. James - Assiniboia, c., Man.	71,430	61,730	1,665	3,075	160	240	370	405	2,030	1,750
St-Jean, c., Qué.	32,860	2,245	29,850	115	-	265	15	20	10	345
St-Jérôme, c., Qué.	26,525	410	25,930	40	-	80	-	5	5	55
St. John's, Nfld.:										
City - Cité	88,100	86,940	290	135	25	35	45	20	20	585
CMA - RMR	131,815	130,400	355	195	30	65	60	25	25	655
St-Lambert, c., Qué.	18,615	8,660	9,230	180	-	60	45	50	35	355
St-Laurent, c., Qué.	62,955	27,210	27,115	1,250	20	800	90	585	255	5,610
St-Leonard, c., Qué.	52,040	3,820	31,655	295	-	13,055	15	400	820	1,965
Ste-Scholastique, c., Qué.	14,790	535	14,160	30	-	10	-	10	-	45
Ste-Thérèse, c., Qué.	17,175	1,085	15,495	45	-	215	5	-	5	325
St. Thomas, c., Ont.	25,545	23,270	295	315	10	235	425	190	105	710
St. Vital, c., Man.	32,960	25,015	3,420	1,675	70	65	390	285	1,090	945
Saint John, N.B.:										
City - Cité	89,040	80,855	6,925	225	15	140	90	10	20	765
CMA - RMR	106,745	97,860	7,450	290	15	150	125	15	25	815
Sarnia, c., Ont.	57,640	49,580	2,520	620	30	1,465	695	405	365	1,955
Saskatoon, Sask.:(1)										
City - Cité	126,450	100,175	2,760	8,230	465	395	855	695	7,925	4,950
CMA - RMR										
● Sault Ste. Marie, c., Ont.	80,330	61,565	4,430	1,120	145	7,735	230	645	665	3,395
Sault Ste. Marie, c., Qué.	24,320	2,190	21,555	90	15	310	5	5	5	175
Sawmigan, c., Qué.	27,795	555	27,160	30	-	30	-	-	5	20
Sawmigan-Sud, t. - v., Qué.	11,470	325	11,105	10	5	5	-	5	5	15
Shelburne, c., Ont.	80,715	6,120	73,610	115	15	205	15	60	15	565
Shillbury, c., Qué.	13,930	1,500	12,255	25	-	25	5	10	5	120
St. Catharines, t. - v., Ont.	10,795	9,840	160	175	5	15	105	40	70	385
Sorel, c., Qué.	19,345	290	18,940	15	-	25	5	5	-	75
Stratford, c., Ont.	24,505	22,545	185	685	30	210	205	110	35	505
● Sudbury, Ont.:										
City - Cité	90,535	50,195	24,455	1,210	170	5,280	170	1,215	2,125	5,760
CMA - RMR	155,420	84,480	49,570	1,850	160	5,505	360	1,495	2,735	8,410
Swift Current, c., Sask.	15,415	12,160	290	1,740	25	-	290	50	190	675
Wawa, c., Ont.	33,230	31,455	770	30	5	155	20	165	70	450
Windsor, c., Ont.	22,005	760	21,160	5	-	10	5	-	-	60

(1) (incomplete) At end of Table 3. - Voir renvoi(s) à la fin du tableau 3.

REFERENCES

The following five papers by S.N. Sharma were the principle references for this report:

1. Requirements of Major Users; Report No. 1 - Ministry of Education, November, 1971.
2. Requirements of Major Users; Report No. 2 - Ministry of Treasury, Economics and Intergovernmental Affairs, January, 1972.
3. Requirements of Major Users; Report No. 3 - Ministry of Health, February, 1972.
4. Requirements of Major Users; Report No. 4 - Ministry of Industry and Tourism, March 1972.
5. Requirements of Major Users; Report No. 5 - Ministry of Transportation and Communications, May, 1972.

Live testing of 1971 Census Data on summary tape was conducted by Miss Marilyn Lee in January, 1973.

Advanced Bulletin: Population by Mother Tongue

Catalogue 92-758 (AP-7) August, 1972, Statistics Canada.

HA Census data needs of
747.65 Ontario users.
.068

